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ABSTRACT

A platen used as a stator of a planar linear motor having a platen body (90) comprised of a stacked member (91) of magnetic sheets (T) giving a high performance and a backing plate. The backing plate of the stacked member (91) is formed with dovetail grooves (91a) along a direction perpendicular to the sheet edge direction. The backing plate (92) has a plurality of first through holes (92a) discretely arranged in lines longitudinally across the strip-shaped portions facing the dovetail grooves (91a). Top bent side ends (94) of connecting beam members (93) have pluralities of second through holes (94a) discretely arranged in lines longitudinally across the beam longitudinal direction. Joints (100) of a fluid hardening material injected into the dovetail grooves (91a) and the through holes (94a) (92a) to fill and harden in the same are formed. The joints (100) are comprised of molded connecting parts (101) filling and fastening the dovetail grooves (91a) and molded joining parts (102) connected to the same, filling the through holes (94a) and (92a), and holding together the backing plate (92) and the top bend side ends (94).

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A platen used as a stator of a planar linear motor having a platen body (90) comprised of a stacked member (91) of magnetic sheets (T) giving a high performance and a backing plate. The backing plate of the stacked member (91) is formed with dovetail grooves (91a) along a direction perpendicular to the sheet edge direction. The backing plate (92) has a plurality of first through holes (92a) discretely arranged in lines longitudinally across the strip-shaped portions facing the dovetail grooves (91a). Top bent side ends (94) of connecting beam members (93) have pluralities of second through holes (94a) discretely arranged in lines longitudinally across the beam longitudinal direction. Joints (100) of a fluid hardening material injected into the dovetail grooves (91a) and the through holes (94a) (92a) to fill and harden in the same are formed. The joints (100) are comprised of molded connecting parts (101) filling and fastening the dovetail grooves (91a) and molded joining parts (102) connected to the same, filling the through holes (94a) and (92a), and holding together the backing plate (92) and the top bend side ends (94).